

REVISION HISTORY

REV	DATE	DESCRIPTION	AUTHOR	CHECKED BY	APPROVED
A	10/26/16	UPDATED FINISH ON -1.	JT	LS	JT
B	05/02/17	ADDED -10 THRU -58 WIRES; SHT 2 WIRE SPECS WERE MIL-W-XXXXX/16-XX-X; -1 LENGTH WAS 5.774, HEIGHT WAS 2.000, HOLE SPACING WAS 1.125; ADDED -2, -10, -11, -12 ASSMEBLY.	JT	LS	JT
C	6/1/17	ADDED ITEM 20 SHT 4 AND ITEM 6 SHT 5 DASHED LINES.	EW	LS	JT
D	7/17/17	MOVED REV BLOCK TO NEW SHT 1; -10 MOVED PART ID #'S TO END OF DESCRIPTION AND CHANGED PN'S TO 505AC-6100-40,-13,-18,-19,-20,-21,-23,-25,-27,-29; -11 MOVED PART ID #'S TO END OF DESCRIPTION AND CHANGED PN'S TO 505AC-6100-43,-44,-58,-41,-42,-45,-46; -12 MOVED PART ID #'S TO END OF DESCRIPTION AND CHANGED PN'S TO 505AC-6100-38,-39,-15,-47,-49,-48; FILLED IN CHECKED BY AND APPROVED INITIALS REVS A TO C.	EW	LS	JT
E	9/20/17	-2 DOUBLER SHT. 4 REMOVED 2X HOLES, REMAINING HOLES WERE .160-.164 DIA.	EW	LS	JT
F	9/22/17	-2 DOUBLER CHANGED 2X HOLES FROM .098-.102 TO .160-.164 DIA.	PM	LS	JT
G	02/21/18	SHT 2 ITEM 17 ADDED in TO QTY, ADDED TRIM NOTE -10 ASM, ITEM 24 LENGTH WAS 12in; SHT 5 ADDED ITEMS 21, 22, 23 AND ALL CORRESPONDING BUBBLES, ADDED TRIM NOTES TO ORN AND RED WIRES, REMOVED LCTN NOTE FROM 2100SP1; SHT 6 ITEM 14 WAS KTN50, ADDED ITEMS 20, 21, 22 AND ALL CORRESPONDING BUBBLES, ADDED TRIM NOTES TO ORN AND RED WIRES, BLK WIRE TRIM WAS 12"; SHT 7 ADDED NOTE 2, -13 WAS 1.6ft, -18 WAS 1.3ft, -19 WAS 1.3ft, -20 WAS 1.4ft, -23 WAS 2.2ft, -25 WAS 2.1ft, -27 WAS 2.2ft, -29 WAS 2.0ft, -38 WAS 2.1ft, -39 WAS 1.7ft, -40 WAS 2.2ft, -42 WAS 1.3ft, -43 WAS 1.7ft, -44 WAS 1.3ft, -45 WAS 1.5ft, -47 WAS 1.7ft, -48 WAS 1.6ft, -49 WAS 1.3ft.	EW	LS	JT
H	7/9/18	SHT 5 ALL "FWD EVAP" WERE "FRONT EVAP"	ZA	LS	MEH
J	12/14/18	SHT 5: ITEM #8 WAS ES59188-1 NOW ES50186-3, CHANGED ITEM #4 WAS 18RA-2577 NOW ES50247-1, CHANGED ITEMS #20-22 WERE "M23503..." NOW "M23053...-0"; SHT 6: ITEM #13 WAS ES59188-1 NOW ES50186-3, CHANGED ITEMS #20-22 WERE "M23503..." NOW "M23053...-0".	ZA	LS	ZA
K	7/5/19	CHANGED SHEET 7 WIRE LENGTHS ON -41 FROM 0.60 TO 0.70 AND ON -46 FROM 1.70 TO 0.85	DT	LS	ZA
L	10/11/19	-10 ASSEMBLY: ADDED ADDITIONAL WIRES FOR RH FWD EVAP COMPATIBILITY; -11 & -12 ASSYS: REVERTED ES50186-2 BACK TO ES59188-1	ZA	LS	ZA
M	10/14/21	-11 & -12: ADDED ALTERNATE SPLICE P/N	ZA	DT	ZA

Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°		DRAWN BY JT	CHK'D BY LS	APRVD. BY JT	DATE 6/29/16
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		3RD ANGLE PROJECTION		DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.	REV M
ECO		SHEET 1 OF 7			

~CONFIDENTIAL INFORMATION~
THE INFORMATION AND DATA CONTAINED HEREIN IS
PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND
SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY
PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN
PERMISSION OF PARAVION TECHNOLOGY, INC.

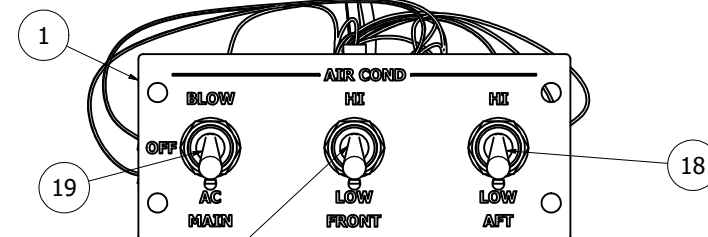
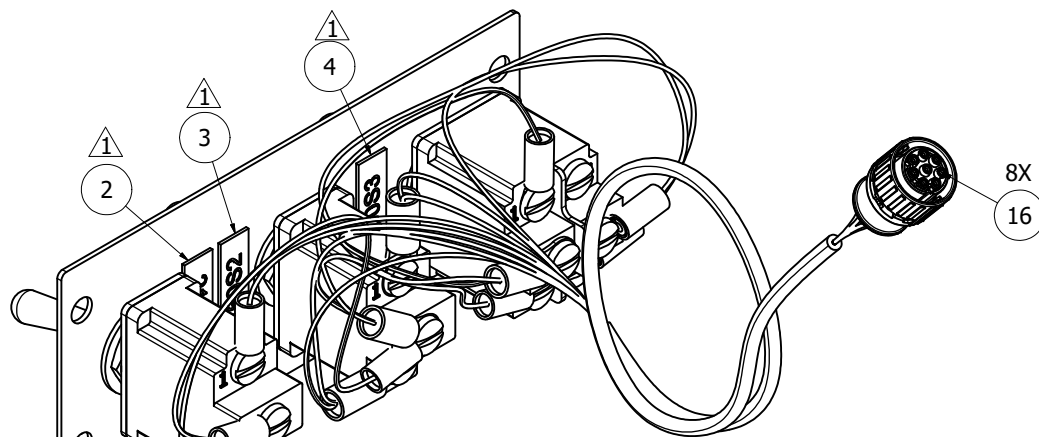
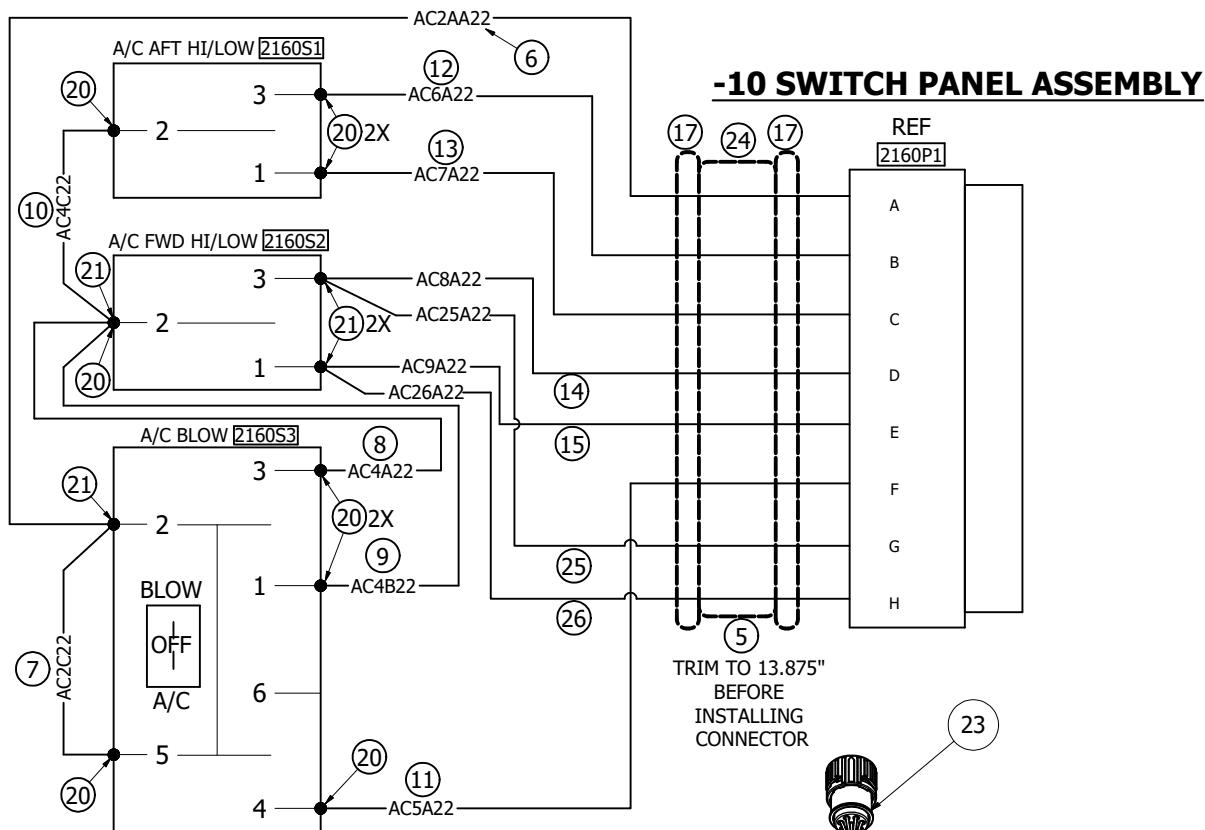
PROTO

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	505AC-6100-1	SWITCH PANEL
2	1	505AC-6120-34	2160S1 DECAL
3	1	505AC-6120-35	2160S2 DECAL
4	1	505AC-6120-36	2160S3 DECAL
5	1	505AC-6120-43	2160P1 IDENT SHRINK TUBING
6	1	505AC-6100-40	WIRE, AC2AA22
7	1	505AC-6100-13	WIRE, AC2C22
8	1	505AC-6100-18	WIRE, AC4A22
9	1	505AC-6100-19	WIRE, AC4B22
10	1	505AC-6100-20	WIRE, AC4C22
11	1	505AC-6100-21	WIRE, AC5A22
12	1	505AC-6100-23	WIRE, AC6A22
13	1	505AC-6100-25	WIRE, AC7A22
14	1	505AC-6100-27	WIRE, AC8A22
15	1	505AC-6100-29	WIRE, AC9A22
16	8	M39029/57-354	CONTACT SOCKET
17	2in	MS23053/5-105-0	HEAT SHRINK
18	2	MS24523-23	SWITCH
19	1	MS24524-21	SWITCH
20	8	MS25036-101	TERMINAL
21	4	MS25036-106	TERMINAL LUG
23	1	SJS830100	PLUG
24	6in	WMEXO-250BK	EXPANDO LOOM 1/4"
25	1	505AC-6103-11	WIRE, AC25A22
26	1	505AC-6103-14	WIRE, AC25A22

NOTES:

1. INSTALL DECAL IN ACCORDANCE WITH BHT-ALL-SPM, CHAPTER 8, PARAGRAPH §8-24.
2. APPLY LACING CORD PER BHT-ELEC-SPM CHAP 6, 6-22 THRU 6-29 AS APPLICABLE.
3. IDENTIFY EACH CONNECTOR WITH APPROPRIATE REFERENCE DESCRIPTION.



Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°		DRAWN BY JT	CHK'D BY LS	APRVD. BY JT	DATE 6/29/16
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		REV M	ECO
3RD ANGLE PROJECTION		SHEET 2 OF 7			

~CONFIDENTIAL INFORMATION~
THE INFORMATION AND DATA CONTAINED HEREIN IS PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

-1 SWITCH PANEL

MATERIAL: 6061-T6 AL SHEET 0.040 THK PER AMS QQ-A-250/11,

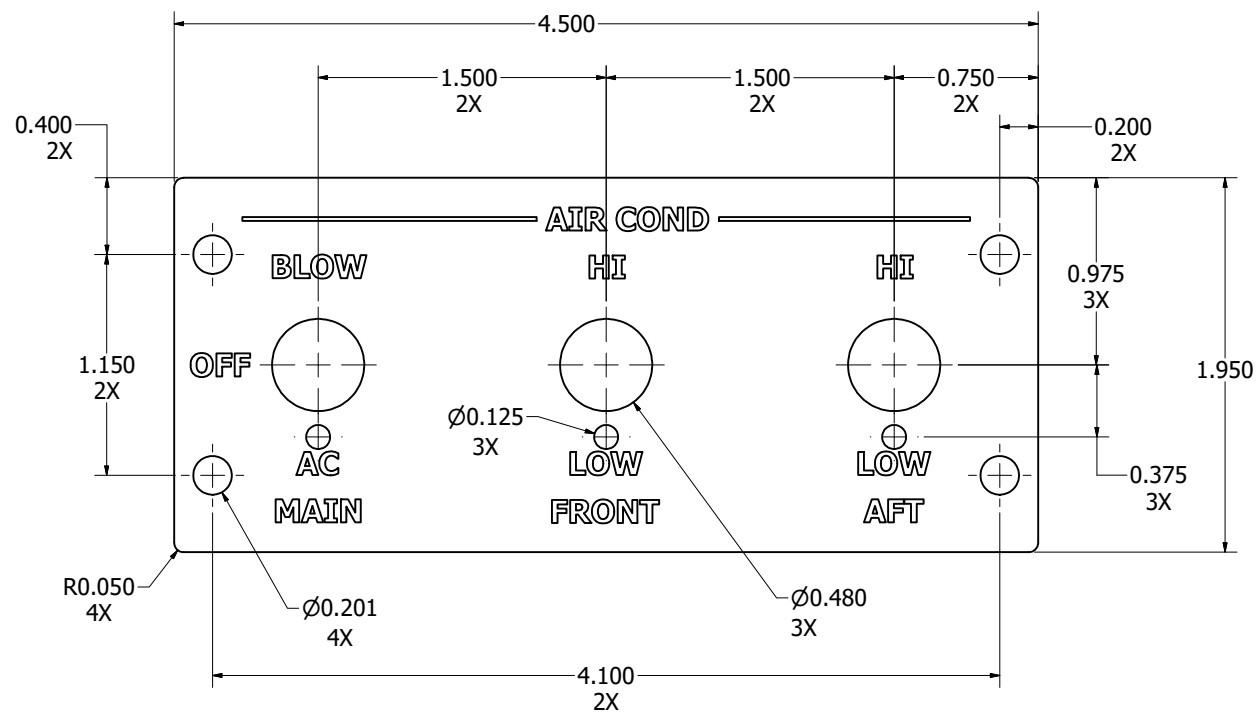
AMS 4025 4026 OR 4027

FINISH: ANODIZE PER MIL-A-8625 TYP II, CLASS 2, COLOR BLACK.

ENGRAVE AFTER FINISH.

FONT: ARIAL-BOLD

SIZE: 12 PT.



Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED:		DRAWN BY	CHK'D BY	APRVD. BY	DATE
.X = ± .1		JT	LS	JT	6/29/16
.XX = ± .05					
.XXX = ± .010					
ANGLES = ± 1°					
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		REV M	ECO
3RD ANGLE PROJECTION		SHEET 3 OF 7			

~CONFIDENTIAL INFORMATION~
THE INFORMATION AND DATA CONTAINED HEREIN IS
PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND
SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY
PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN
PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

-2 DOUBLER

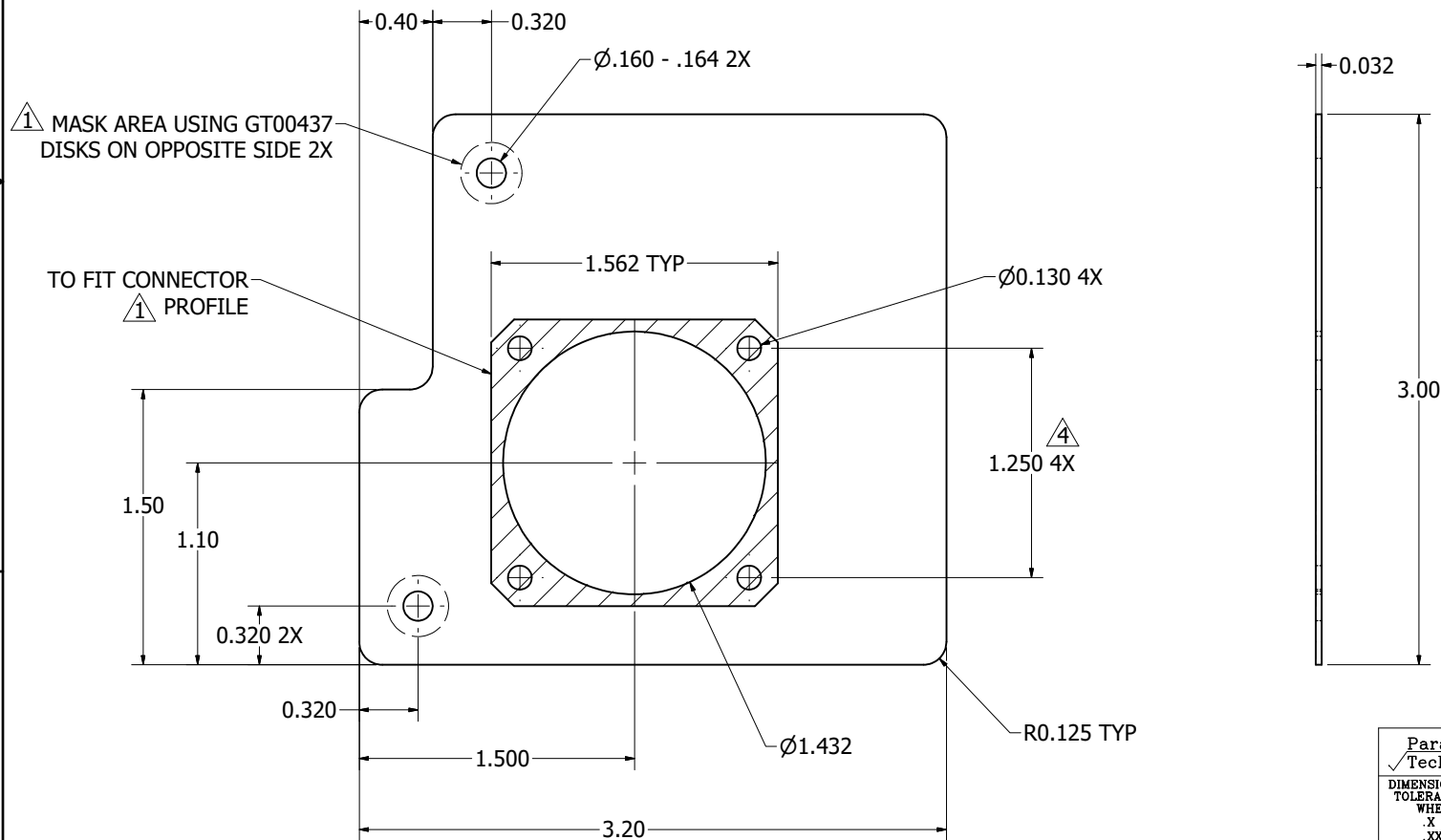
MATERIAL: 0.032" 2024 T3 ALUMINUM ALLOY SHEET
PER AMS-QQ-A-250/4
FINISH: ANODIZE PER MIL-A-8625 TYP II, CLASS 1,
EXCEPT OMIT SEALING IN SECTION 3.8.1.2.
PAINT: PRIMER PER MIL-PRF-23377J TYPE I, CLASS N.
PAINT ADHESION TEST: $\triangle 3$

NOTES:

- $\triangle 1$ PREP MASKED AREAS IN ACCORDANCE WITH BHT-ELEC-SPM CHAP. 8-5 THRU 8-7
- $\triangle 2$ PREPARE PART FOR PRIMER:
 - a. USE EXTRA CAUTION AND WEAR GLOVES WHILE PREPARING PARTS FOR PRIMER.
 - b. THOROUGHLY CLEAN ANODIZED PART USING ISOPROPYL ALCOHOL.
 - c. USE COMPRESSED AIR FREE OF WATER AND CONTAMINANTS.
- $\triangle 3$ PAINT ADHESION TEST:

FOR BOTH DRY AND WET TESTS, USE A TAPE WITH AN ADHESION TO STEEL OF 70 OZ/IN MINIMUM.

 - a. DRY TAPE TEST DONE ONCE EVERY LOT.
 - i. PLACE THE TAPE ON THE PRIMERED SURFACE AND AFFIX WITH FIRM PRESSURE.
 - ii. REMOVE THE TAPE WITH AN ABRUPT MOTION (JERK).
 - iii. LOSS OF ADHESION TO THE BASE MATERIAL CONSTITUTES A FAILURE.
 - b. WET TAPE TEST DONE ONCE PER LOT.
 - i. SOAK THE PART WITH DISTILLED OR DEIONIZED WATER FOR 24 HRS.
(ALTERNATIVELY: AN ANODIZED COUPON WITH AN AREA ABOUT 4 INCHES X 4 INCHES MAY BE USED)
 - ii. DRY THE SURFACE WITH A CLEAN CLOTH.
 - iii. REPEAT STEPS i THRU iii OF DRY TAPE TEST.
- $\triangle 4$ CONNECTOR HOLE PATTERN PER BELL STANDARD 160-025, DASH # 21

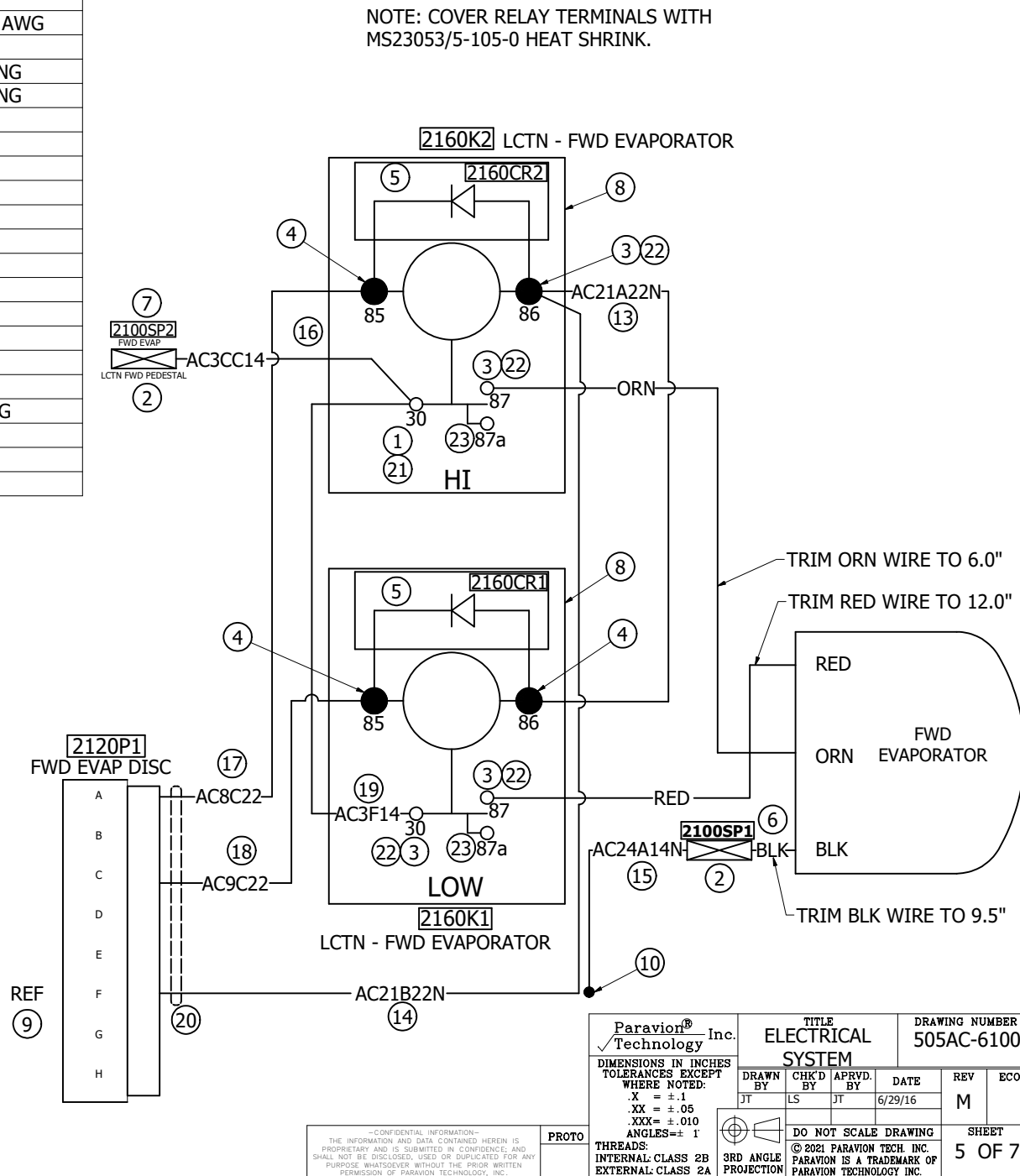
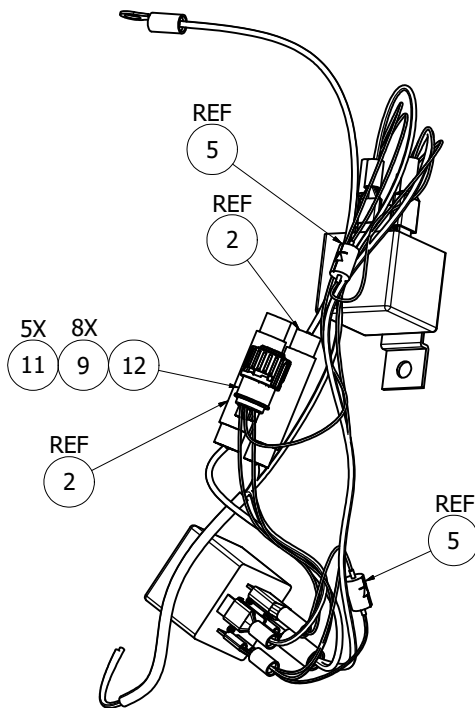


~CONFIDENTIAL INFORMATION~
THE INFORMATION AND DATA CONTAINED HEREIN IS
PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND
SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY
PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN
PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°		DRAWN BY JT	CHK'D BY LS	APRVD. BY JT	DATE 6/29/16
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		REV M	ECO
3RD ANGLE PROJECTION		SHEET 4 OF 7			

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	10RC-250F	TERMINAL
2	2	130-065-12-1	SPLICE 12AWG (ALT: CTL-12-513)
3	4	14RB-250F	TERMINAL
4	3	ES50247-1	TERMINAL INSULATED, 22-18 AWG
5	2	407AC-6118-1	DIODE ASSEMBLY
6	1	505AC-6120-45	2100SP1 IDENT SHRINK TUBING
7	1	505AC-6120-46	2100SP2 IDENT SHRINK TUBING
8	2	ES59188-1	RELAY
9	8	M39029/57-354	CONTACT SOCKET
10	1	MS25036-108	TERMINAL LUG
11	5	MS27488-22-1	PLUG
12	1	SJS830100	PLUG
13	1	505AC-6100-43	WIRE, AC21A22N
14	1	505AC-6100-44	WIRE,AC21B22N
15	1	505AC-6100-58	WIRE, AC24A14N
16	1	505AC-6100-41	WIRE, AC3CC14
17	1	505AC-6100-42	WIRE, AC8C22
18	1	505AC-6100-45	WIRE, AC9C22
19	1	505AC-6100-46	WIRE, AC3F14
20	1	505AC-6120-44	2120P1 IDENT SHRINK TUBING
21	1.25"	M23053/5-107-0	HEAT SHRINK
22	5"	M23053/5-106-0	HEAT SHRINK
23	1.25"	M23053/5-105-0	HEAT SHRINK

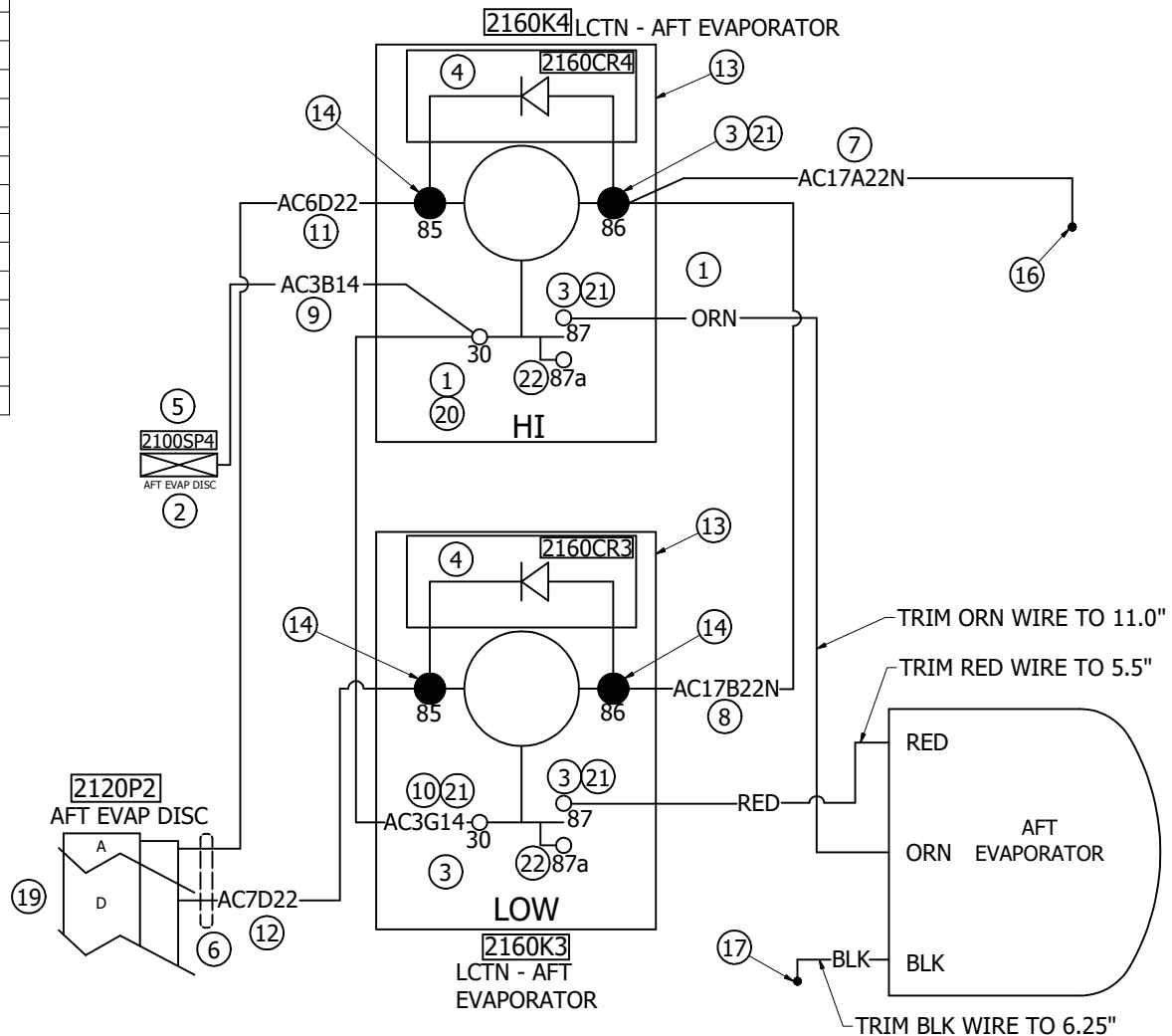


PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	10RC-250F	TERMINAL
2	1	130-065-12-1	SPLICE 12AWG (CTL-12-513)
3	4	14RB-250F	TERMINAL
4	2	407AC-6118-1	DIODE ASSEMBLY
5	1	505AC-6120-47	2100SP4 IDENT SHRINK TUBING
6	1	505AC-6120-48	2120P2 IDENT SHRINK TUBING
7	1	505AC-6100-38	WIRE, AC17A22N
8	1	505AC-6100-39	WIRE, AC17B22N
9	1	505AC-6100-15	WIRE, AC3B14
10	1	505AC-6100-47	WIRE, AC3G14
11	1	505AC-6100-49	WIRE, AC6D22
12	1	505AC-6100-48	WIRE, AC7D22
13	2	ES59188-1	RELAY
14	3	ES50247-1	TERMINAL INSULATED, 22-18 AWG
15	8	M39029/57-354	CONTACT SOCKET
16	1	MS25036-103	TERMINAL LUG
17	1	MS25036-108	TERMINAL LUG
18	6	MS27488-22-1	PLUG
19	1	SJS830100	PLUG
20	1.25"	M23053/5-107-0	HEAT SHRINK
21	5"	M23053/5-106-0	HEAT SHRINK
22	1.25"	M23053/5-105-0	HEAT SHRINK

-12 AFT EVAPORATOR WIRING ASSY

NOTE: COVER RELAY TERMINALS WITH
MS23053/5-105-0 HEAT SHRINK.



Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES ± 1°		THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A	3RD ANGLE PROJECTION	DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.	SHEET 6 OF 7
DRAWN BY JT		CHK'D BY LS	APRVD. BY JT	DATE 6/29/16	REV M
ECO					

505AC-6100 WIRES

DASH NO.	WIRE SPECIFICATION	LENGTH (ft)	WIRE MARKING
-13	MIL-W-22759/41-22-9	0.38	AC2C22
-14	MIL-W-22759/41-14-9	8.80	AC3A14
-15	MIL-W-22759/41-14-9	0.75	AC3B14
-16	MIL-W-22759/41-14-9	15.20	AC3C14
-17	MIL-W-22759/41-14-9	5.70	AC3D14
-18	MIL-W-22759/41-22-9	0.43	AC4A22
-19	MIL-W-22759/41-22-9	0.43	AC4B22
-20	MIL-W-22759/41-22-9	0.43	AC4C22
-21	MIL-W-22759/41-22-9	1.40	AC5A22
-22	MIL-W-22759/41-22-9	15.30	AC5B22
-23	MIL-W-22759/41-22-9	1.50	AC6A22
-24	MIL-W-22759/41-22-9	15.30	AC6B22
-25	MIL-W-22759/41-22-9	1.50	AC7A22
-26	MIL-W-22759/41-22-9	15.30	AC7B22
-27	MIL-W-22759/41-22-9	1.50	AC8A22
-28	MIL-W-22759/41-22-9	3.90	AC8B22
-29	MIL-W-22759/41-22-9	1.50	AC9A22
-30	MIL-W-22759/41-22-9	3.90	AC9B22
-31	MIL-W-22759/41-22-9	3.30	AC10A22N
-32	MIL-W-22759/41-16-9	5.60	AC11A16
-33	MIL-W-22759/41-16-9	1.80	AC11B16
-34	MIL-W-22759/41-16-9	2.90	AC12A16N
-35	MIL-W-22759/41-16-9	11.00	AC14A16
-36	MIL-W-22759/41-16-9	12.40	AC15A16N
-37	MIL-W-22759/41-22-9	6.50	AC16A22N
-38	MIL-W-22759/41-22-9	1.52	AC17A22N
-39	MIL-W-22759/41-22-9	0.88	AC17B22N
-40	MIL-W-22759/41-22-9	1.40	AC2AA22
-41	MIL-W-22759/41-14-9	0.70	AC3CC14
-42	MIL-W-22759/41-22-9	0.83	AC8C22
-43	MIL-W-22759/41-22-9	0.85	AC21A22N
-44	MIL-W-22759/41-22-9	0.88	AC21B22N
-45	MIL-W-22759/41-22-9	1.00	AC9C22
-46	MIL-W-22759/41-14-9	.85	AC3F14
-47	MIL-W-22759/41-14-9	0.85	AC3G14
-48	MIL-W-22759/41-22-9	1.10	AC7D22
-49	MIL-W-22759/41-22-9	0.84	AC6D22
-50	MIL-W-22759/41-22-9	3.70	AC5C22
-51	MIL-W-22759/41-22-9	1.50	AC21C22N
-52	MIL-W-22759/41-22-9	4.60	AC6C22
-53	MIL-W-22759/41-22-9	4.60	AC7C22
-54	MIL-W-22759/41-22-9	2.30	AC2BB22
-55	MIL-W-22759/41-14-9	2.30	AC1AA14
-56	MIL-W-22759/41-14-9	2.30	AC3DD14
-57	MIL-W-22759/41-14-9	2.40	AC3AA14
-58	MIL-W-22759/41-14-9	1.00	AC24A14N
-59	MIL-W-22759/41-14-9	4.20	AC1A14
-60	MIL-W-22759/41-22-9	15.30	AC2A22
-61	MIL-W-22759/41-22-9	5.80	AC2B22

NOTES:

1. WIRE MARKING SPACING TO BE 15 INCHES MAXIMUM PER AC 43.13-1B PARA. 11-208.
2. IT IS ACCEPTABLE TO USE WIRE PER DLA LAND AND MARITIME DRAWING NO. 04041, IN EQUIVALENT GAUGE, TO REPLACE MIL-W-22759/41 WIRE.
EXAMPLE: MIL-W-22759/41-XX-9 IS REPLACED BY 04041-XX-9.

Paravion® Technology Inc.		TITLE ELECTRICAL SYSTEM		DRAWING NUMBER 505AC-6100	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°		DRAWN BY JT	CHK'D BY LS	APRVD. BY JT	DATE 6/29/16
THREADS: INTERNAL CLASS 2B EXTERNAL CLASS 2A		DO NOT SCALE DRAWING © 2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		REV M	ECO
3RD ANGLE PROJECTION		SHEET 7 OF 7			

~CONFIDENTIAL INFORMATION~
THE INFORMATION AND DATA CONTAINED HEREIN IS
PROPRIETARY AND IS SUBMITTED IN CONFIDENCE; AND
SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY
PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN
PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO